



1/12

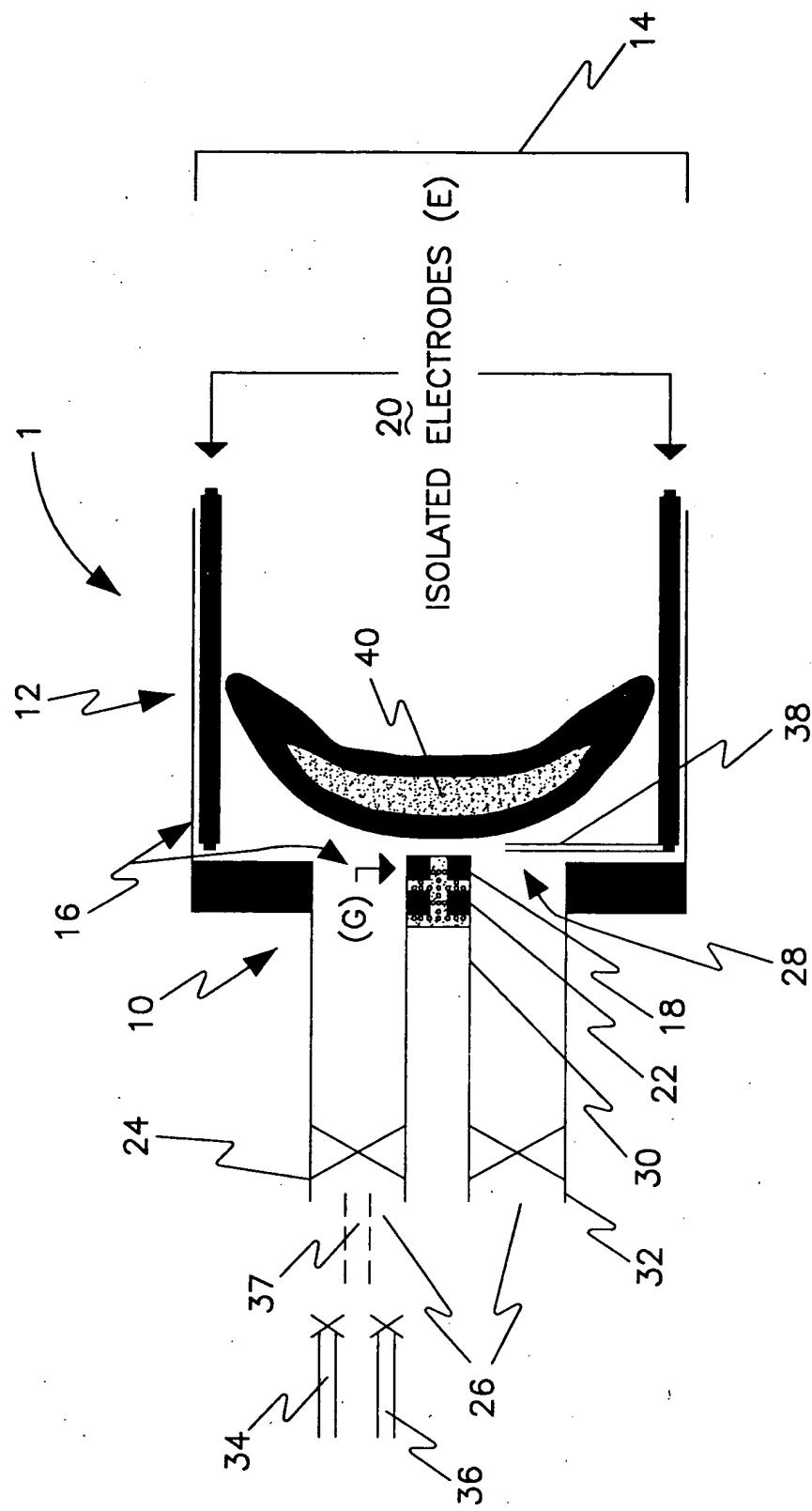


FIG. 1



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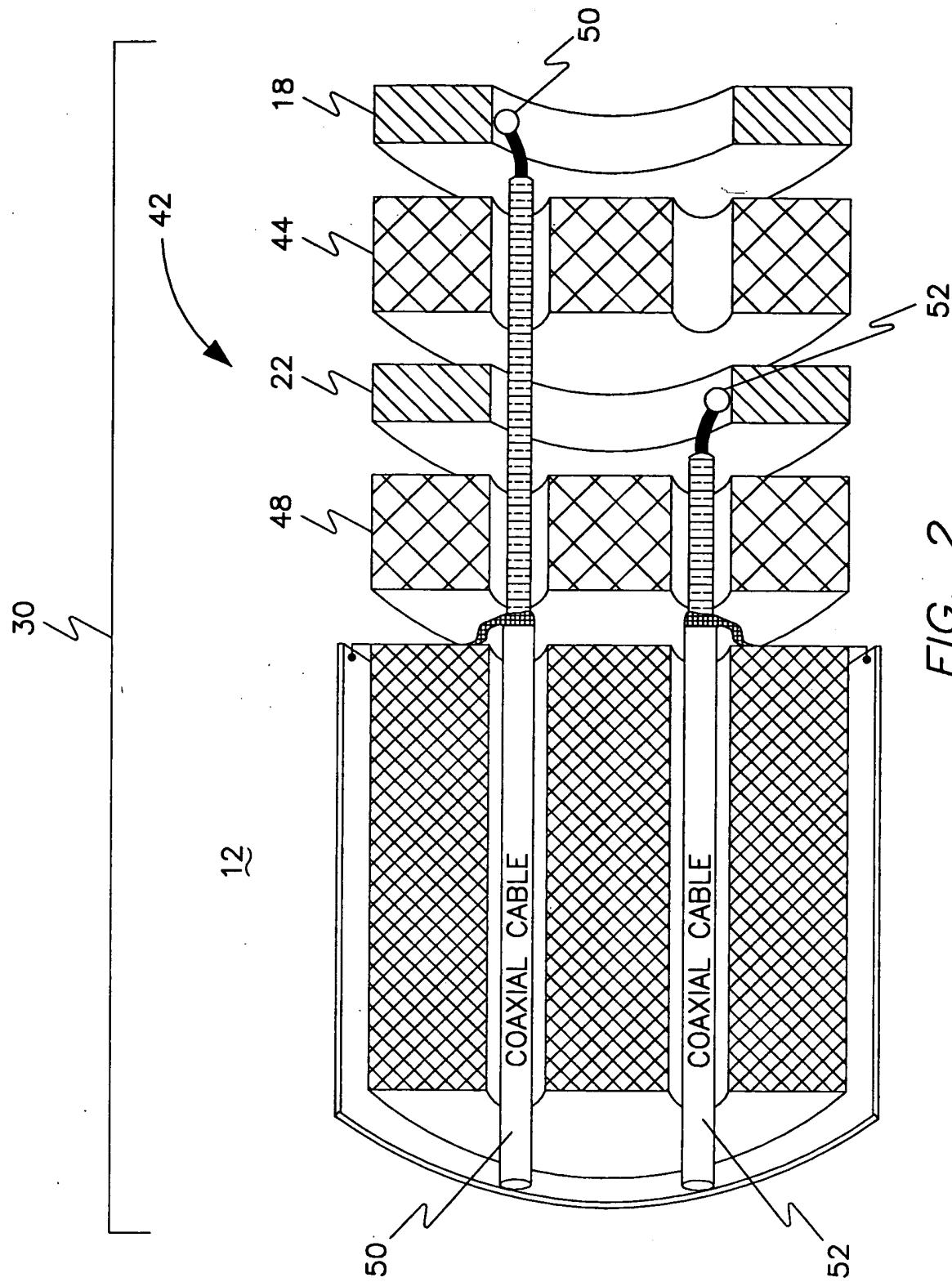


FIG. 2



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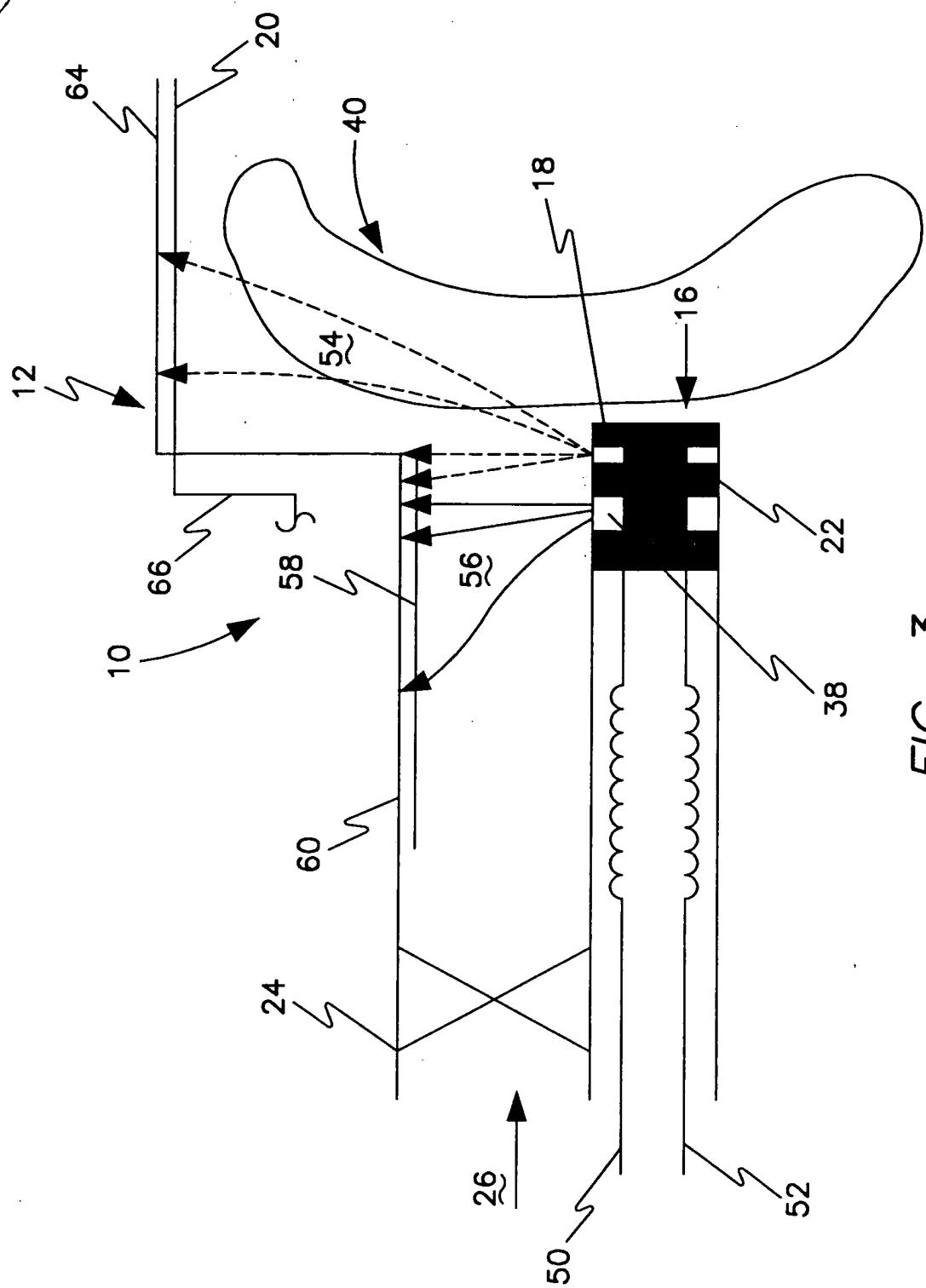


FIG. 3

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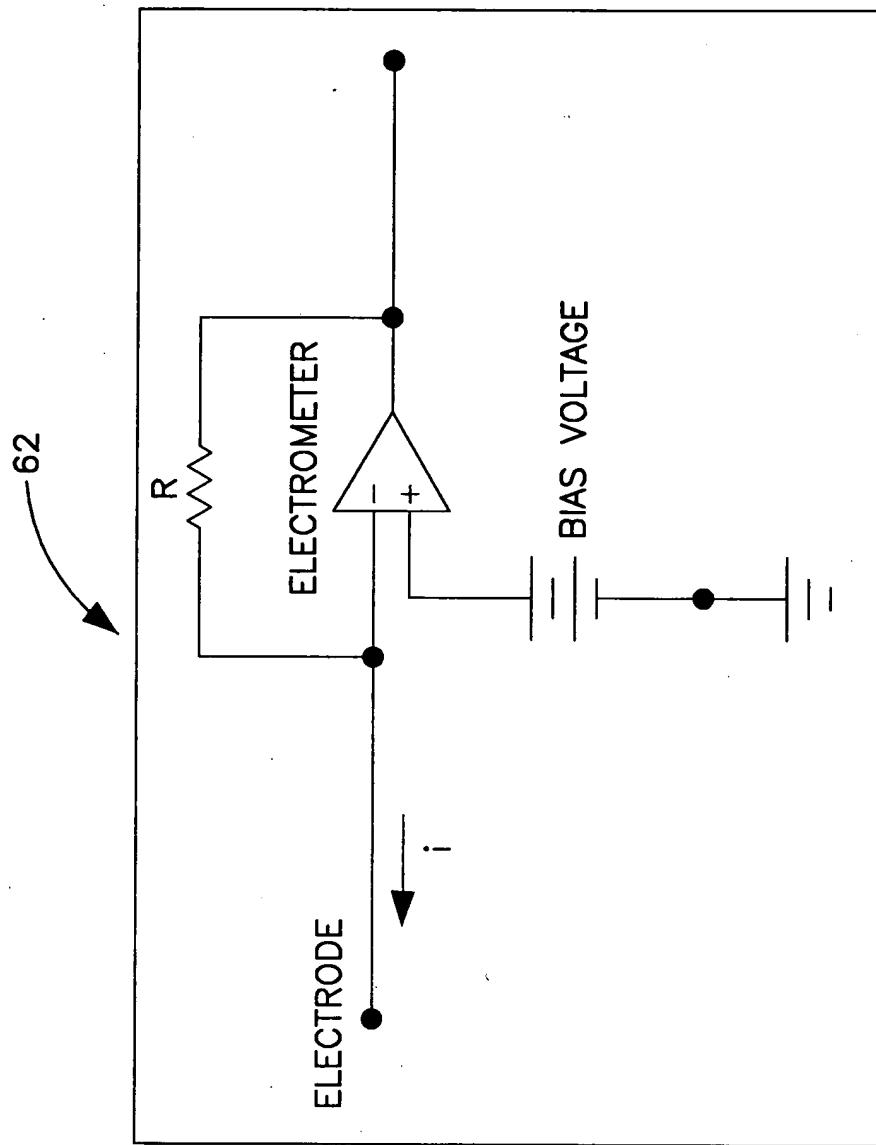


FIG. 4

TYPICAL CONTROL CIRCUIT FOR FLASHBACK DETECTION SENSOR

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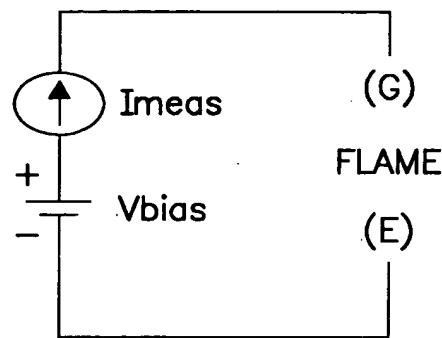


FIG. 4b

TYPICAL CURRENT MEASURING DEVICE



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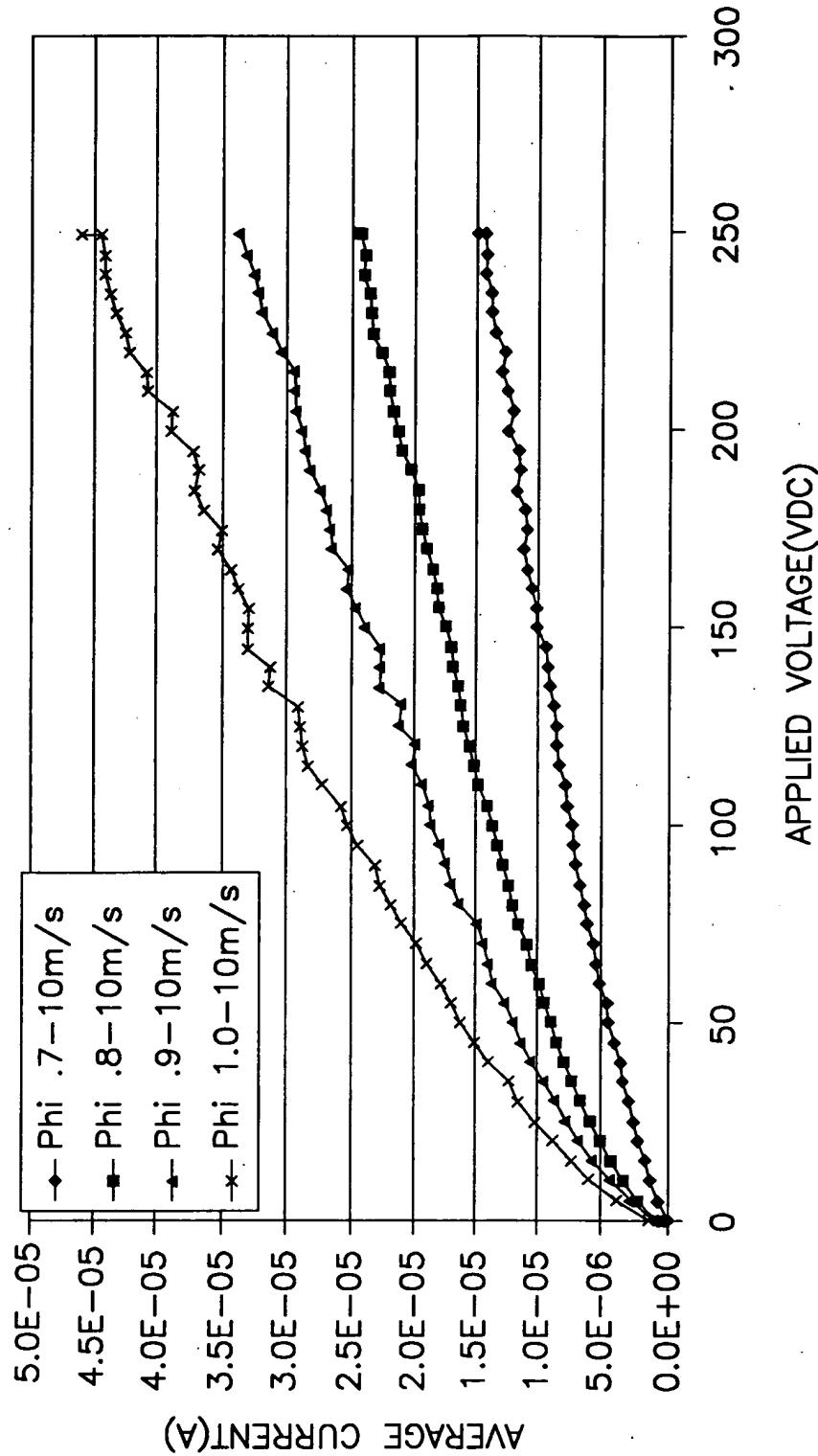


FIG. 5

SHOWS THE AVERAGE CURRENT MEASUREMENTS OVER A RANGE OF APPLIED VOLTAGE (V_{bias}) AND EQUIVALENCE RATIOS, AT 10m/s BULK VELOCITY USING THE ISOLATED ELECTRODE COMBUSTION CONFIGURATION.

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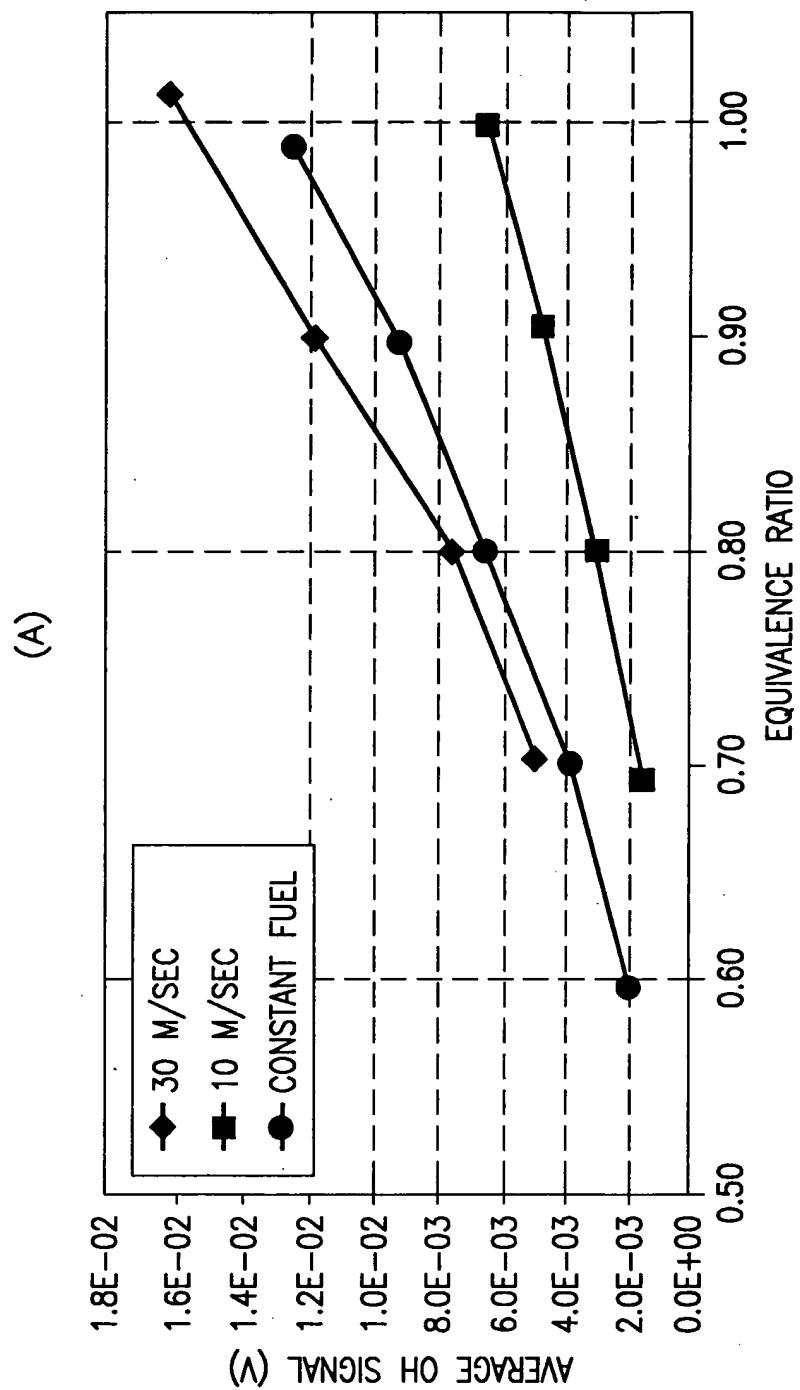


FIG. 6a



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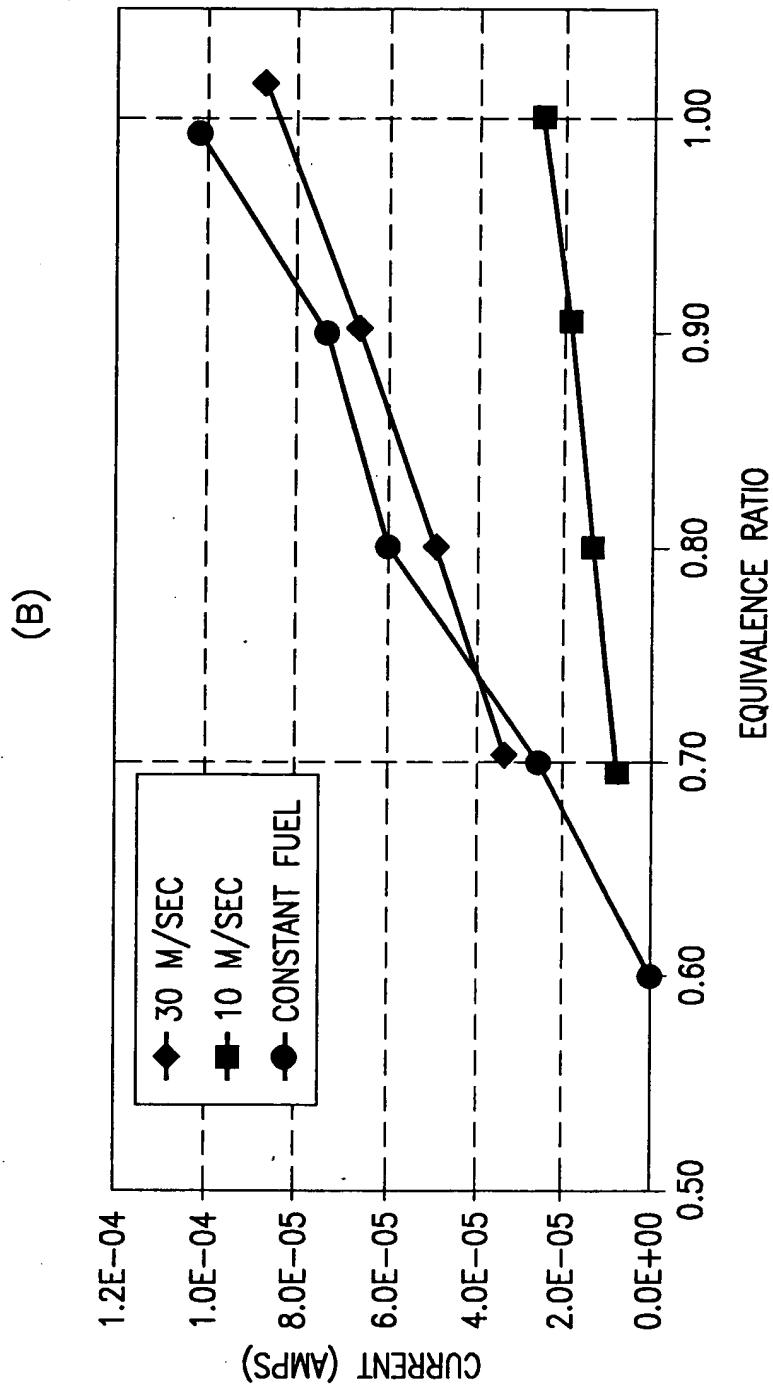


FIG. 6b

DATA FROM THE ISOLATED ELECTRODE CONFIGURATION: (B) THE AVERAGE CURRENT WITH V_{bias} OF 100 VDC AT A RANGE OF EQUIVALENCE RATIOS

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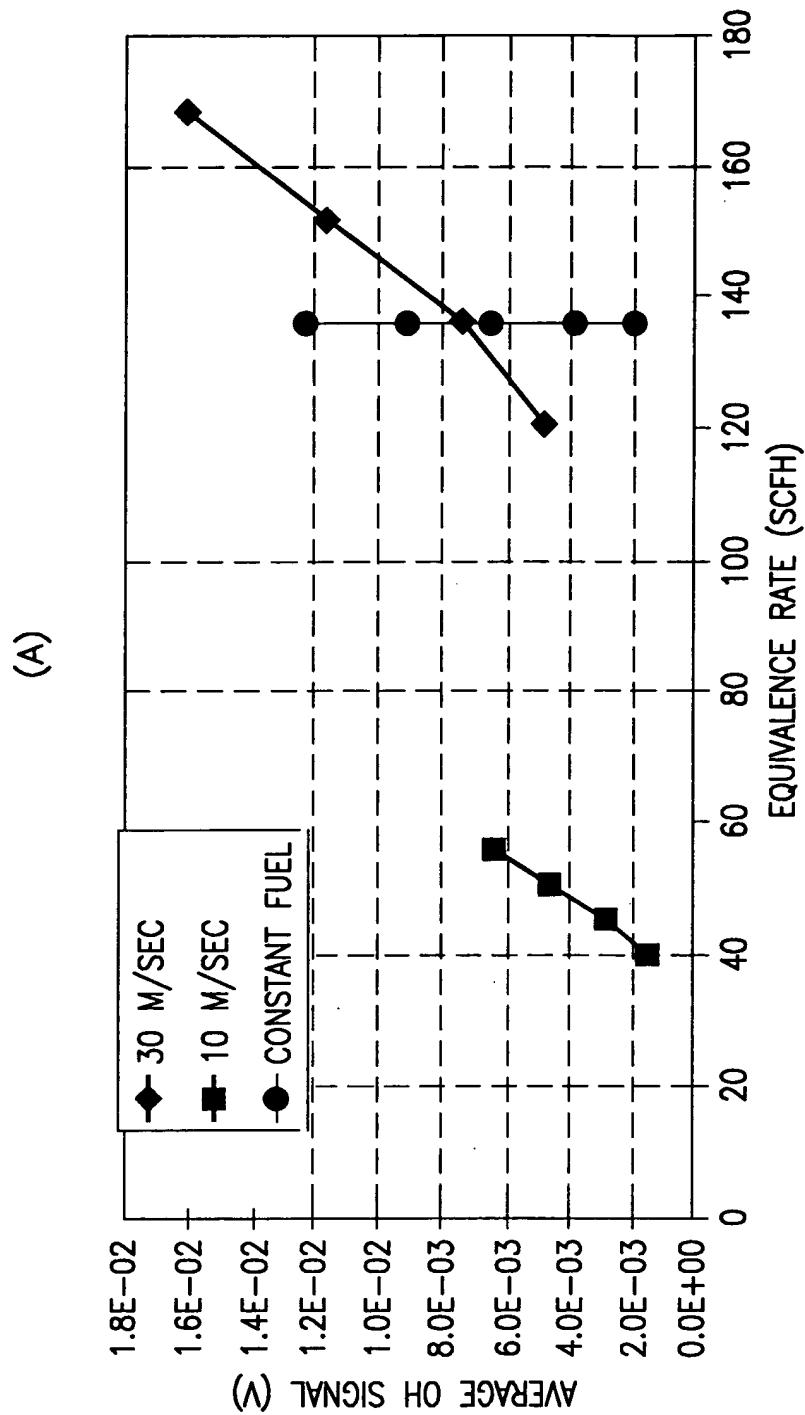


FIG. 7a



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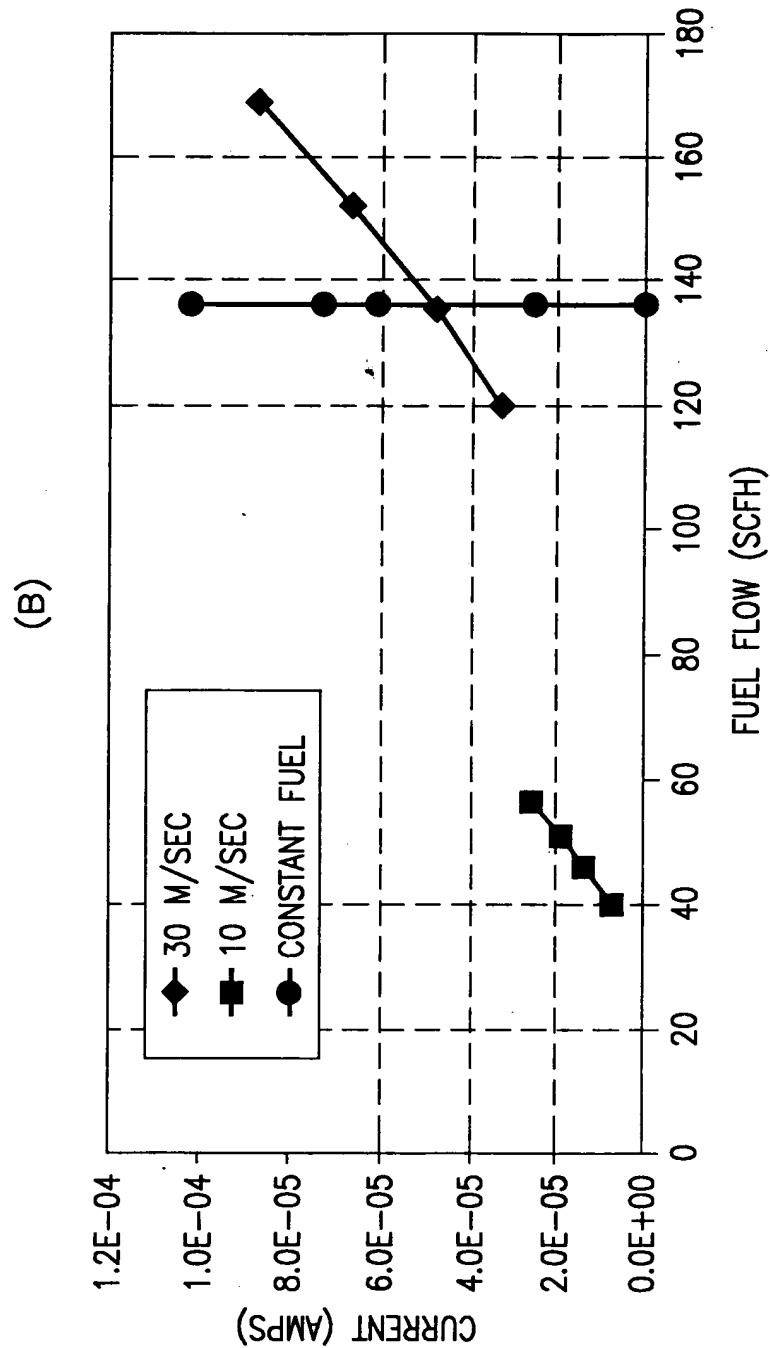


FIG. 7b

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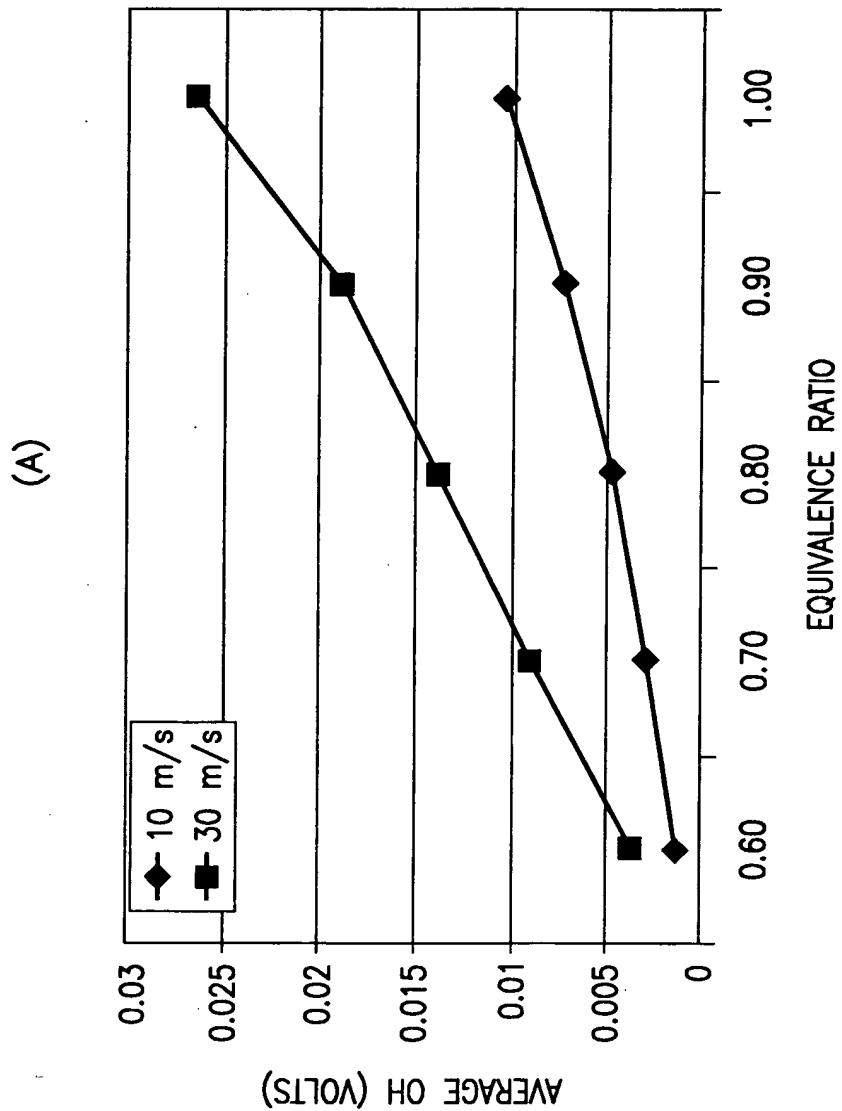


FIG. 8a

DATA FROM THE METAL COMBUSTOR CONFIGURATION: (A) THE AVERAGE OH MEASUREMENTS AT A RANGE OF EQUIVALENCE RATIOS

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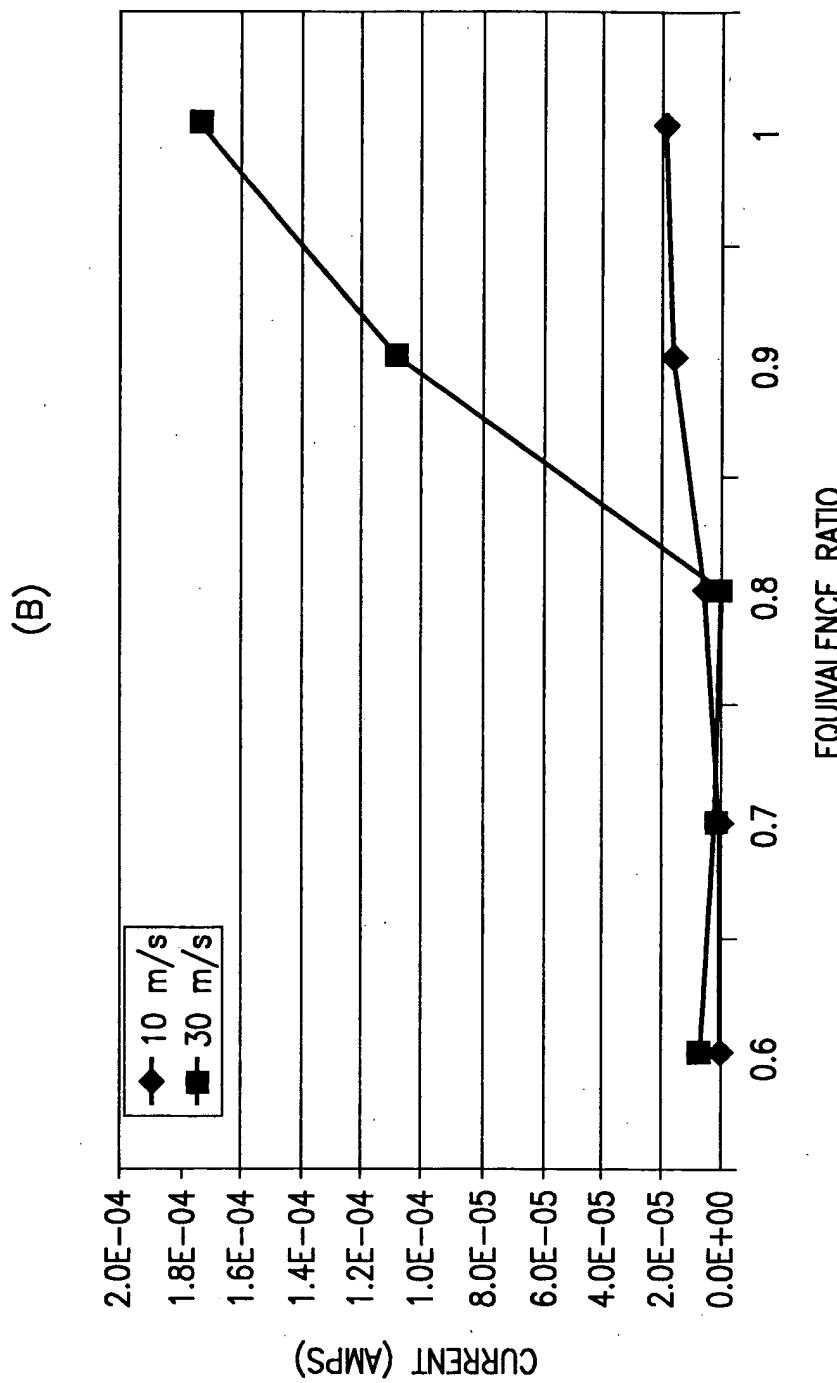


FIG. 8b